WEST Search History

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DATE: Wednesday, March 17, 2004

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	DB=PC	SPB, USPT, USOC, EPAB, JPAB, DWPI; PLUR=YES; OP=AD.	J
	L2	L1 with (mammalian or huiman or rat or mouse or murine)	7
Г	L1	serine adj2 racemase	35

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Search Results - Record(s) 1 through 7 of 7 returned.

1. Document ID: US 20040018206 A1

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L2: Entry 1 of 7

File: PGPB

Jan 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040018206

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040018206 A1

TITLE: Cloning, sequencing and expression of a gene encoding an eukaryotic amino acid racemase, and diagnostic, therapeutic, and vaccination applications of parasite and viral mitogens

PUBLICATION-DATE: January 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Minoprio, Paola	Villiers S/Marne		FR	
Arala-Chaves, Mario	Ovar		PT	
Arala-Chaves, Mario	Lisboa		PT	
Coutinho, Antonio	Paris		FR	
San Martin, Bernardo Reina	Gentilly		MX	
Rougeot, Catherine	Chevreuse		FR	
Degrave, Wim	Bagneu		FR	
Cosson, Alain	Neuilly S/Marne		FR	

US-CL-CURRENT: 424/186.1; 435/320.1, 435/325, 435/456, 435/69.3, 530/350, 536/23.72

Full Title Citation F	ront Review Classification	Date Reference	Sequences	Attachments	Claims	KNMC Drai	at De
				· · · · · · · · · · · · · · · · · · ·			

2. Document ID: US 20030212262 A1

L2: Entry 2 of 7

File: PGPB

Nov 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030212262

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030212262 A1

TITLE: Human serine racemase

h eb bgeeef efe ef be

PUBLICATION-DATE: November 13, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Connolly, Thomas M Lansdale PAUS Liu, Yuan Lansdale PAUS Xia, Menghang Blue Bell PA US

US-CL-CURRENT: 536/23.2; 435/106, 435/233, 435/320.1, 435/325, 435/6, 435/69.1,

800/8

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

3. Document ID: US 20030175941 A1

L2: Entry 3 of 7 File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175941

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030175941 A1

TITLE: Regulation of human serine racemase enzyme

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Ramakrishnan, Shyam Brighton US

US-CL-CURRENT: 435/233; 435/320.1, 435/325, 435/6, 435/69.1, 435/7.1, 536/23.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

4. Document ID: US 20030064439 A1

L2: Entry 4 of 7 File: PGPB

Apr 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030064439

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030064439 A1

TITLE: Novel nucleic acid sequences encoding melanoma associated antigen molecules, aminotransferase molecules, ATPase molecules, acyltransferase molecules, pyridoxalphosphate dependant enzyme molecules and uses therefor

PUBLICATION-DATE: April 3, 2003

INVENTOR-INFORMATION:

CITY STATE COUNTRY RULE-47 NAME

MΑ US Bandaru, Rajasekhar Watertown

eb bgeeef ef e ef h

Glucksmann, Maria Alexandra

Lexington

MA US

Meyers, Rachel E.

Newton

MA US

MA

Rudolph-Owen, Laura A.

Jamaica Plain

US

US-CL-CURRENT: 435/69.1; 435/193, 435/320.1, 435/325, 536/23.2

Full Title Citation Front	Review Classification	Date Reference Sequenc	es Attachments Claims KWC Draw De

5. Document ID: US 20020115137 A1

L2: Entry 5 of 7

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115137

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020115137 A1

TITLE: 22406, a novel human pyridoxal-phosphate dependent enzyme family member and

uses therefor

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME

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STATE

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Meyers, Rachel A.

Newton

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RULE-4/

Rudolph-Owen, Laura A.

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MA

US US

e

COUNTRY

US-CL-CURRENT: <u>435/69.1</u>; <u>435/320.1</u>, <u>435/325</u>, <u>536/23.2</u>

Full Title Citation	Front Review Classification	Date Reference	Sequences Attachments	8 Claims KWC Draw

6. Document ID: US 6458576 B1

L2: Entry 6 of 7

File: USPT

Oct 1, 2002

US-PAT-NO: 6458576

DOCUMENT-IDENTIFIER: US 6458576 B1

TITLE: 22406, a novel human pyridoxal-phosphate dependent enzyme family member and

uses therefor

Full Title Citation Front Review Classification Date Reference Citation Claims KMC Draw, De

7. Document ID: MX 2001007310 A1, WO 200043526 A1, AU 200024135 A, NO 200103557 A, EP 1147203 A1, BR 200007592 A, KR 2001103740 A, HU 200105035 A2, JP 2002534984 W

L2: Entry 7 of 7

File: DWPI

May 1, 2002

DERWENT-ACC-NO: 2000-482915

DERWENT-WEEK: 200368

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TITLE: $\underline{\text{Mammalian serine racemase}}$ preparations, used to identify modulators which can be used to treat diseases associated with N-methyl-D-aspartate receptor overactivation, e.g. Alzheimer's disease

Full Title Citation Front Review Classification Date Reference	Claims KOMC Draw De
Clear Generate Collection Print Fwd Refs Bkwd R	55505000000000004 000000000000000000000
Terms	Documents
L1 with (mammalian or huiman or rat or mouse or murine)	7

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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:		(11) International Publication Number: WO 00/43526
C12N 15/61, 9/90, 15/85, 5/10, C12Q 1/533	A1	(43) International Publication Date: 27 July 2000 (27.07.00)
(21) International Application Number: PCT/USO (22) International Filing Date: 18 January 2000 (19) (30) Priority Data: (60/116,333 19 January 1999 (19.01.99) (60/144,839 21 July 1999 (21.07.99) (60/145,953 28 July 1999 (28.07.99) (63) Related by Continuation (CON) or Continuation-in- (CTP) to Earlier Applications US 60/145,953	8.01.00 U U U -Part	(75) Inventors/Applicants (for US only): SNYDER, Solomon, H [US/US]; The Johns Hopkins University, Suite 906, 111 Market Place, Baltimore, MD 21202 (US). WOLOSKER Herman [US/US]; The Johns Hopkins University, Suite 906 111 Market Place, Baltimore, MD 21202 (US). SHETH Kevin [US/US]; The Johns Hopkins University, Suite 906 111 Market Place, Baltimore, MD 21202 (US). MASAAKI Takahashi [US/US]; The Johns Hopkins University, Suite 906, 111 Market Place, Baltimore, MD 21202 (US). MO THET, Jean-Pierre [US/US]; The Johns Hopkins University Suite 906, 111 Market Place, Baltimore, MD 21202 (US) BRADY, Roscoe, O., Jr. [US/US]; The Johns Hopkins University, Suite 906, 111 Market Place, Baltimore, MD 21202
Filed on 28 July 1999 (2: US 60/144,839 Filed on 21 July 1999 (2: US 60/116,333 Filed on 19 January 1999 (1: (71) Applicant (for all designated States except US): THE HOPKINS UNIVERSITY SCHOOL OF MEI	8.07.99 9 (CON 11.07.99 3 (CON 9.01.99	(US). FERRIS, Christopher, D. [US/US]; The Johns Hop- kins University, Suite 906, 111 Market Place, Baltimore, MD 21202 (US). (74) Agents: KAGAN, Sarah, A. et al.; Banner & Witcoff, Ltd., 11th floor, 1001 G Street, N.W., Washington, DC 20001–4597 (US).
[US/US]; Suite 906, 111 Market Place, Baltimo 21202 (US).	те, М	(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM GA, GN, GW, ML, MR, NE, SN, TD, TG).
		Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: MAMMALIAN SERINE RACEMASE

(57) Abstract

High levels of D-serine occur in mammalian brain, where it appears to be an endogenous ligand of the "glycine site" of NMDA receptors. We have purified from rat brain a soluble enzyme that catalyzes the direct racemization of L-serine to D-serine. Purified serine racemase has a molecular weight of 37 kDa and requires pyridoxal 5'-phosphate for its activity. The enzyme is highly selective toward L-serine, failing to racemize any other amino acid tested. We have also identified polynucleotide sequences which encode mammalian, including human, serine racemase. Compounds which modulate the activity of mammalian serine racemase are useful for treating conditions and diseases which involve overstimulation of NMDA receptors, such as stroke and various neurodegenerative diseases.



INTERNATIONAL SEARCH REPORT

			PC1703 00/00938
A. CLASSI IPC 7	FICATION OF SUBJECT MATTER C12N15/61 C12N9/90 C12N15/8	35 C12N5/10	0 C12Q1/533
According to	p international Patent Classification (IPC) or to both national classific	ation and IPC	
	SEARCHED		
Minimum do IPC 7	cumentation searched (classification system tollowed by classificati C12N C12Q	on symbols)	
Documentat	ion searched other than minimum documentation to the extent that a	uch documents are inclu	ided in the fields searched
Electronic di	ata base consulted during the international search (name of data ba	se and, where practical,	search terms used)
	ENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.
x	TAKUMA UO ET AL.: "Occurrence of pyridoxal 5'-phosphate-dependent racemase in silkworm, Bombyx more BIOCHEMICAL AND BIOPHYSICAL RESEATIONS, vol. 246, no. 1, 8 May 1998 (1998 pages 31-34, XP002135965 ORLANDO, FL US abstract page 32, right-hand column, paragence 32, right-hand column, paragence 34, left-hand column, last page 34, left-hand column, last page 34, left-hand column, paragence 34, left-hand column, last page 34, left-hand column, last page 34, left-hand column, last page 2, line 16 - line 50	Serine " ARCH 3-05-08), graph 2 graph 3 paragraph	1-13 1-6, 9-11,24, 28,32-38
X Furth	er documents are listed in the continuation of box C.	X Patent family m	members are listed in annex.
"A" docume consider of filling de "L" docume which i citation other n "P" docume	ate it which may throw doubts on priority claim(s) or is cified to establish the publication date of another in or other special reason (as specified) int referring to an oral disclosurs, use, exhibition or	or priority date and cited to understand invention "X" document of particul cannot be consider involve an inventive document of particul cannot be consider document is combinents, such combinents, such combinents.	ished after the international filing date in not in conflict with the application but dithe principle or theory underlying the lar relevance; the claimed invention red novel or cannot be considered to e step when the document is taken alone lar relevance; the claimed invention red to involve an inventive step when the ined with one or more other such docunination being obvious to a person skilled of the same patent family
Date of the a	actual completion of the international search	Date of mailing of th	he international search report
9	May 2000	23/05/20	000
Name and n	nalling address of the ISA European Palent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Montero	Lopez, B

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INTERNATIONAL SEARCH REPORT

.. ational Application No PCT/US 00/00938

C.(Contine	lation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °		Relevant to claim No.
A	DAVID S. DUNLOP ET AL.: "The origin and turnover of D-Serine in brain" BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 235, no. 1, 9 June 1997 (1997-06-09), pages 26-30, XP002135966 ORLANDO, FL US abstract page 30, right-hand column, paragraph 2 - paragraph 3	1-13
P,X	HERMAN WOLOSKER ET AL.: "Serine racemase: a glial enzyme synthesizing D-Serine to regulate glutamate-N-methyl-D-aspartate neurotransmission" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, vol. 96, no. 23, 9 November 1999 (1999-11-09), pages 13409-13414, XP002135967 WASHINGTON US page 13410, left-hand column, paragraph 5 -page 13413, right-hand column, paragraph 2; figure 1	1-38
P,X	HERMAN WOLOSKER ET AL.: "Purification of Serine racemase: Bioynthesis of the neuromodulator D-Serine" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, vol. 96, no. 2, 19 January 1999 (1999-01-19), pages 721-725, XP002135968 WASHINGTON US page 722, right-hand column, paragraph 3 -page 725, left-hand column, last paragraph	1-13, 32-38

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